

Hein-Werner®

The *Finest* Line in Jacks



A WINNER FOR OVER 40 YEARS

● AUTOMOTIVE

● INDUSTRIAL

● CONSTRUCTION

● AGRICULTURAL

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CATALOG NO. 103

Hein-Werner®
WAUKESHA, WIS. • AJAX, ONTARIO

HEIN-WERNER LEADERSHIP

For more than 40 years Hein-Werner has led in pioneering new Hydraulic Jack designs and methods to make jacking equipment more efficient, safer and longer lasting. Customer recognition of this insistence on excellence, plus production know-how explains why Hein-Werner manufactures and sells more Hydraulic Jacks than any other company in the world today!

Here are some Hein-Werner "firsts":

The **FIRST** Hydraulic Bumper-lift for passenger cars.

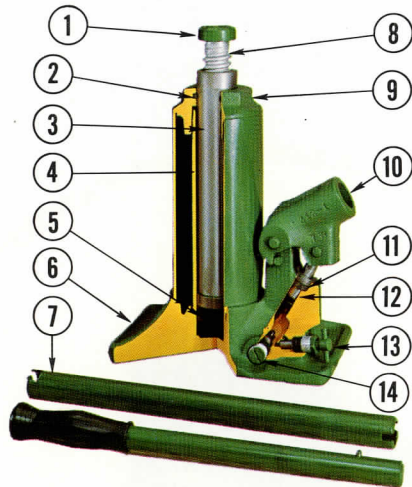
The **FIRST** low priced Hydraulic Service Jack — the O'Boy. Its sensational price and dependable service made Hydraulic Service Jacks the accepted standard everywhere.

The **FIRST** Hydraulic Jacks with solid steel base to provide greater endurance for industrial use.

The **FIRST** Hydraulic Twin-Saddle Jack — the Model 55. Most popular service jack ever developed.

The **FIRST** service jacks with flanged steel side members, greatly increasing strength with less weight.

The **FIRST** plated extension screws on Hand Hydraulic Jacks providing maximum thread protection against rust and corrosion.



HEIN-WERNER QUALITY

1. Each jack individually tested at $1\frac{1}{2}$ times rated capacity for uniform dependability and strength.
2. Efficient quad-ring wiper keeps inner jack parts clean.
3. Ram ground to exact size smooths lifting action.
4. Heavy-walled pressure cylinder with mirror finish increases ram cup life and sealing action.
5. Heavy heeled ram cup for extra life.
6. Pressure tested, malleable base with integral pump chamber assures full power and long wear.
7. Two-piece pumping handle packed in carton with jack has exclusive rubber grip.
8. One-piece, heat treated extension screw and ram head, plated for maximum thread protection.
9. Heavy malleable top nut withstands accidental damage and strengthens entire jack.
10. Center-balanced handle socket aids positioning and eliminates rocking action while pumping.
11. Packing nut and packing keeps critical piston working surface clean.
12. Self-Aligning Ball Joint piston for longer wear.
13. Positive release valve protected with seal.
14. Simple, trouble free pump valves assure efficient pumping and sealing action.

Simplicity of design and high parts interchangeability make servicing more economical.

**A WINNER
FOR OVER 40 YEARS**

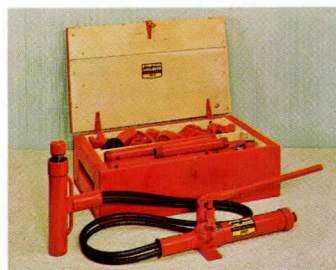
Hein-Werner also manufactures Push and Pull and Pushmaster body and frame repair equipment. Details may be found in Catalog No. 16.



**C-4S Push and Pull
4 ton JackKit**



**C-2S Pushmaster
4 ton JackKit**



**C-11 Push and Pull
10 ton JackKit**



**C-16 Pushmaster
10 ton JackKit**

Descriptive model numbers on hand jacks simplify selling and buying the correct jack for the job. Prefix "E" indicates extension screw; first number is capacity; second number shows closed height.

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HYDRAULIC JACK OIL

Quart and Gallon Cans



Hein-Werner Jack Oil has special additives to inhibit foaming and rust formation on internal parts. Assures even flow for proper valve action in high or low temperatures. Use Hein-Werner Hydraulic Jack Oil for proper functioning of your Hein-Werner Jack. Never use hydraulic brake fluid or liquids having an alcohol base which breaks down sealing properties of cups and packings and voids your guarantee.



**A WINNER
FOR OVER 40 YEARS**

HYDRAULIC



**1 1/2 TON
E1.7F**

E1.7F

A compact all purpose Hydraulic Jack in a handy size for automotive, home or shop use. A favorite with tradesmen for controlled bending, leveling or supporting power. Hardened one-piece extension screw and ram head is plated for maximum thread protection against rust and dirt formation. Has malleable base, top nut and center-balanced handle socket. Handle is packed with jack in individual carton. Shipped six jacks per container.

HW

E3.9A

Ideal for light and medium trucks and buses, farm use, implement repairing, straightening, moving and general shop use. Operates in vertical or horizontal position. By-pass prevents overtravel of ram. Pump chamber cast in pressure tested malleable base for greater operating efficiency. One-piece extension screw assembly is plated for extra protection against rust and corrosion. Center-balanced handle socket eliminates rocking as jack is pumped.



**3 TON
E3.9A**

HW



**5 TON
E5.9A**

E5.9A

A popular model for lifting medium sized trucks and buses; also widely used for farm, shop and industrial maintenance jobs. Often incorporated as a power unit in light presses, cranes and a variety of other hydraulically operated equipment where controlled power is essential. Operates in vertical or horizontal position. By-pass prevents overtravel of ram. Release valve designed to permit accurate control of lowering speed.

SPECIFICATIONS

Model	Cap. Tons	Low Hgt.	Hyd. Lift	Ext. Screw	Max. Height	Handle Length	Size of Base	Effect. Ram Dia.	Shipping Wt. Lbs.
E1.7F	1 1/2	7"	5 1/4"	2"	14 1/4"	26"	5 1/16" x 3 1/4"	1 5/16"	10
E3.9A	3	9"	6 5/16"	2"	17 5/16"	20"	5 5/8" x 3 3/4"	1 1/4"	15
E5.9A	5	9"	6 1/2"	3"	18 1/2"	20"	5 13/16" x 4 1/4"	1 1/2"	18

HAND JACKS

Hein-Werner

5

E8.9A

Designed to handle the heavier trucks and buses easily and safely. Heavy base and top nut make this model a favorite also with industrial maintenance men and construction workers requiring a jack capable of standing up on the rugged jobs. Operates in a vertical or horizontal position. By-pass prevents overtravel of ram. Includes all features described on page 2. Gauge registering pounds load available for this model. See below for details.



**8 TON
E8.9A**

HW



**12 TON
E12.9A**

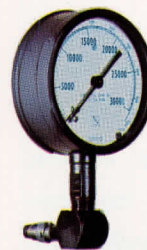
E12.9A

Rugged construction and operating ease make this model the leader in the field for handling heavy trucks and buses; raising or leveling buildings; operating hydraulic presses and scores of other applications requiring compact, concentrated power. Positive release valve permits complete control of lowering speed. By-pass prevents over-travel of ram. Convenient carrying handle aids positioning. Plated extension screw provides maximum protection of threads against rust or corrosion. May be gauge equipped.

HW

GAUGE EQUIPPED JACKS

Gauges registering pounds load on ram are available for the 8 through 100 ton hand jacks. Identify by capacity desired followed by the letter "G" as shown below and correct gauge with adapter will be supplied. 8G gauge registers in 200 lb. increments; 12G in 500 lb. increments; 20G and 30G in 1000 lb. increments; 50G in 2000 lb. increments and 100G in 4000 lb. increments. Special self-sealing adapter installs directly into check valve hole of standard E8.9A and E12.9A. 20 Ton jack must be specially drilled and ordered as 20.10AAG. Standard 30, 50 and 100 ton models have special gauge hole pre-drilled.



**PRESSURE
GAUGES**



SPECIFICATIONS

Model	Cap. Tons	Low Hgt.	Hyd. Lift	Ext. Screw	Max. Height	Handle Length	Size of Base	Effect. Ram Dia.	Shipping Wt. Lbs.
E8.9A	8	9"	6 $\frac{7}{16}$ "	4 $\frac{1}{16}$ "	20"	20"	6 $\frac{5}{8}$ " x 4 $\frac{5}{8}$ "	1 $\frac{3}{4}$ "	23
E12.9A	12	9"	6 $\frac{1}{16}$ "	3"	18 $\frac{1}{16}$ "	20"	6 $\frac{7}{8}$ " x 4 $\frac{7}{8}$ "	2"	31

GAUGE IDENTIFICATION CHART

Jack Model	E8.9A	E12.9A	20.10AAG	30.11AA	50.12AA	100.12AA
Gauge Number	8G	12G	20G	30G	50G	100G

A WINNER
FOR OVER 40 YEARS

HEAVY DUTY . . .



20 TON
20.10AA

20.10AA

This powerful, compact jack with steel base has the rugged characteristics and extra strength required for heavy-duty lifting of trucks, buses, road machinery and construction equipment. Also popular as a power unit for hydraulic presses.

1 $\frac{5}{8}$ " thick steel base and massive malleable top nut provide built-in protection against accidental damage and assure long performance under heavy service conditions.

Positive release valve is plated and recessed in base. Jack can be operated vertically or horizontally. Convenient handle permits easier carrying and positioning. Also available drilled for gauge attachment as Model 20.10AAG.

HW

30.11AA

Has solid steel base 1 $\frac{7}{8}$ " thick with broad flat surface for maximum stability and ease in mounting. Widely used in industry and construction wherever compact, controlled power is needed.

Equipped with recessed dual release valves permitting operation from either side of jack. Safety valve prevents damage from overloading. Tandem, two-speed pump design permits quicker load contact; then by merely sliding pumping handle back, operator disengages speed pump to lift maximum loads easily. Rigid carrying handle aids positioning and base is pre-drilled for gauge attachment.



30 TON
30.11AA

SPECIFICATIONS

Model	Cap. Tons	Low Hgt.	Hyd. Lift	Max. Hgt.	Handle Lgth.	Size of Base	Effect. Ram Dia.	Shipp. Wt. Lbs.
20.10AA	20	10"	6 $\frac{1}{2}$ "	16 $\frac{1}{2}$ "	20"	7"x5 $\frac{1}{2}$ "x1 $\frac{5}{8}$ "	2 $\frac{1}{2}$ " ϕ	43
30.11AA	30	11"	7"	18"	20"	8 $\frac{1}{2}$ "x6"x1 $\frac{7}{8}$ "	3"	70



**50 TON
50.12AA**

50.12AA

This model is particularly popular in industry for filter presses, shop conversion, production line applications and many other occasions where extra power is required in a confined space.

Jack can be operated in a vertical or horizontal position. Recessed dual release valves permit operation from either side. Safety valve protects jack against damage from overloading and by-pass in cylinder wall prevents overtravel of ram. Other features include heat treated ram head, drop-down positioning handles and tandem two-speed pump design for quicker load contact. Base is tapped for gauge attachment.

HW

100.12AA

This amazingly compact jack weighs just over 200 lbs., yet applies 100 tons of concentrated power, always under complete control of the operator. Often used by contractors as support during bridge repairs and erection jobs. Also valuable in industry for laboratory presses and various heavy jobs where hydraulic power is essential.

Tandem two-speed pumps provide quicker load contact and permit operator to lift 100 ton loads with ease. Safety valve protects jack against overloading damage and cylinder by-pass prevents ram overtravel. Other features include heat treated ram head, dual release valves and drop-down positioning handles. Base is tapped for gauge.



**100 TON
100.12AA**

SPECIFICATIONS

Model	Cap. Tons	Low Hgt.	Hyd. Lift	Max. Hgt.	Handle Lgth.	Size of Base	Effect. Ram Dia.	Shipp. Wt. Lbs.
50.12AA	50	12"	7"	19"	20"	10"x7½"x2¼"	3¾"	129
100.12AA	100	12"	6⅛"	18⅛"	20"	12"x9½"x3"	5"	204

A WINNER
FOR OVER 40 YEARS

TWIN-SADDLE JACKS



1 1/2 TON
57-2

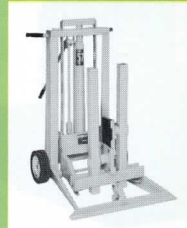


CP-55



57-2

Long carriage reach and wider saddle span assure ample clearance to lift by bumpers, brackets or frame. In addition to rubber padded swivel saddles, Model 57-2 includes a second set of dual hooks to securely engage bumper slots and other confined bumper contact points where necessary. Widely spaced rubber wheels and flanged base members increase stability under the extra strain of unbalanced loads.



Other features include 3 ton power unit; double safety stops; plated ram, piston and release valve; and permanently attached handle. Special No. 5714 Mustang Adapters optional at extra cost.

CP-55 CAR PROP Relieves weight to provide more work space for under-lift servicing jobs. To attach, merely slip slotted bottom bracket on to carriage plate of 57-2 and fit bracket over ram yoke with slot straddling nut.

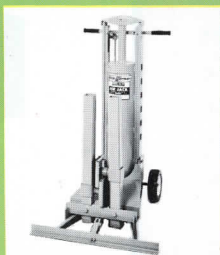
AL-36-3

AL-36-3 also includes an extra set of dual hooks to securely engage bumper slots and other confined bumper contact points as necessary.

Patented piston design automatically lubricates cylinder wall for smoother operation. Any moisture from air hose is collected below piston working area. Carriage rollers have sealed bearings and travel on hardened tracks. Stationary air valve operates with tire inflator or coupler.

Other features include positive piston travel stop; automatic load locks; spring suspended, swivel front wheel; folding saddle arm tubes; extra wide base support and high lift.

Special No. 5714 Mustang Adapters optional at extra cost.



1 1/2 TON
AL-36-3

SPECIFICATIONS

Model	Cap. Tons	Low Saddle Height	Ext. Saddle Height	Saddle Pad Size	Saddle Span (Ctr. to Ctr.)	Clearance Saddles to Frame	Rear Wheel Dia.	Shipping Weight Lbs.	Rep. Unit No.
57-2	1 1/2	9 1/4"	33"	6" x 4 1/2"	20" to 59"	17"	8"	182	U-57
AL-36-3	1 1/2	9 1/4"	36 3/4"	6" x 4 1/2"	20" to 59"	17"	8"	200	—



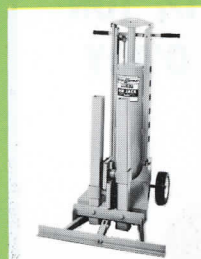
5714

2 1/2 TON
AL-38-2

AL-38-2

Featuring heavy duty frame construction, the Model AL-38-2 provides a 60" saddle spread and flexible saddle adjustment for long lived performance on old or new cars. Big 6 3/4" air cylinder requires less air pressure for full capacity operation. Saddle arm tubes are 1/4" thick and reinforced at points of greatest stress. In addition to rubber padded swivel saddles, Model AL-38-2 includes a second set of dual hooks to securely engage bumper slots and other confined bumper contact points where necessary.

Patented piston design lubricates cylinder automatically during normal operation. Any moisture from air hose is collected in a well at bottom of cylinder below piston working area. Positive piston stop and automatic load locks provide extra safety. Stationary air valve can be operated with either tire inflator or coupler. Special No. 5714 Mustang Adapters optional at extra cost.



HW

AL-35-3

Constructed of sturdy steel channel, the AL-35-3 is built to give years of trouble-free service. Features include long reach and high lift; exceptional balance, easy mobility and large rubber wheels. Operates smoothly with a minimum of air pressure.

Lifting forks provide stable support for rear end lifting and fold back to expose pad with safety lip to securely contact front ends for lifting. Twin air tanks keep frame height low for easier access to contact points.

When used with CS-5.17 Pivot Head stands to support opposite end of vehicle, all four wheels can be cleared with one lift. The AL-35-3 is ideal for quick tire and wheel changes; shock absorber, muffler and tail pipe replacement; and brake adjustment.



1 1/2 TON
AL-35-3

SPECIFICATIONS

Model	Cap. Tons	Low Saddle Height	Ext. Saddle Height	Saddle Pad Size	Saddle Span (Cntr. to Cntr.)	Clearance Saddles to Frame	Rear Wheel Dia.	Shipping Weight Lbs.
AL-38 2	2 1/2	8 1/4"	38 1/4"	6" x 4 1/2"	23" to 59 1/2"	17"	8"	230
AL-35-3	1 1/2	8"	53"	—	21"	63"	8"	540

**A WINNER
FOR OVER 40 YEARS**

STANDARD



**1 1/4 TON
O'BOY**

O'BOY (OS)

An economical, compact jack for light shop and road service. Offers the same high standards of quality found in heavier Hein-Werner Jacks. Handle has "T" grip and can be removed from jack with finger pressure for easier portability in road service work. Rated capacity is prominently cast in lifting arm for easy identification.

Other features include white, load centering swivel saddle; steel side plates; malleable casters and front wheels; Heinite piston; direct, gear type release valve; steel power unit; overload safety valve and positive stop to prevent overtravel of ram.

Hydraulic unit is designed for easy removal whenever maintenance is necessary.

HW

WS

A powerful, stable jack for service station, road service and shop use. Handle has "T" grip and is removable without tools. Side members are of high carbon steel. Swivel casters, front wheels and lifting arm are malleable iron. Rated capacity is prominently cast in top surface of arm for easy identification. Safety valve prevents overloading, positive stop prevents overtravel of ram.

Other important advantages include: white swivel saddle; direct, gear type release valve; steel power unit; Heinite piston and deep dished saddle with extra gripping ridges for secure load contact.

Hydraulic unit may be easily removed whenever maintenance is required.

Also available with rubber wheels as Model WSR.



**1 1/2 TON
WS**

SPECIFICATIONS

Model	Cap. Tons	Saddle Low Point	Saddle High Point	Length of Chassis	Length of Handle	Length Overall	Frame Height	Dia. of Saddle	Dia. of Front Wheels	Dia. of Caster Wheels	Shipp. Weight Lbs.	Replacement Unit No.
O'Boy	1 1/4	4 5/16"	17 13/16"	25"	50"	70"	5 3/4"	5 1/2"	4"	2 5/8"	73	UO
WS	1 1/2	4"	20"	28"	50"	72"	5 7/8"	7 1/2"	4"	2 5/8"	100	UW

SERVICE JACKS

Hein-Werner

11



**2 TON
K**

K (SHORT CHASSIS)

This compact Service Jack with 31" chassis is most suitable for operation in close quarters, general service station and garage use. Lifts to a high of 24" and is powered by a forged steel hydraulic unit for extra long, trouble-free performance. Handle has full 90° pumping arc and locks in three positions for easier spotting under load.

Has positive stop to control overtravel of ram; malleable casters, front wheels and lifting arm; white swivel saddle; overload safety valve; roller bearings in front wheels; ball bearings riding in work hardened races in casters; and high carbon steel side members.

HW

M (LONG CHASSIS)

Featuring dual pistons and floating power unit, the efficient M contacts most loads in two handle strokes and lifts up to 25". Long 47" chassis provides ample clearance to operate handle through full 90° pumping arc. Handle locks in three positions to ease spotting under load. Flanged steel side members provide extra strength with less weight.

Other important advantages include: overload safety valve; positive stop to control ram overtravel; work hardened bearing races in casters; roller bearings in front wheels; load centering swivel saddle with extra gripping ridges and direct, gear type release valve.

Fine balance makes this an exceptionally easy jack to maneuver and operate. Also available with rubber wheels as Model MR.



**2 TON
M**

SPECIFICATIONS

Model	Cap. Tons	Saddle Low Point	Saddle High Point	Length of Chassis	Length of Handle	Length Overall	Frame Height	Dia. of Saddle	Dia. of Front Wheels	Dia. of Caster Wheels	Shipp. Weight Lbs.	Replacement Unit No.
K	2	4"	24"	31"	54"	80"	5 $\frac{7}{8}$ "	7 $\frac{1}{2}$ "	4"	2 $\frac{5}{8}$ "	118	UK
M	2	4 $\frac{1}{4}$ "	25"	47"	46"	91"	6 $\frac{3}{4}$ "	7 $\frac{1}{2}$ "	4"	2 $\frac{5}{8}$ "	149	UM

A WINNER
FOR OVER 40 YEARS

HEAVY DUTY . . .



**4 TON
GH**

GH

This smooth operating, heavy-duty model lifts to a high of 25". Flanged steel side members provide more strength with less weight making the jack more mobile and easier to maneuver. Other service proven Hein-Werner features include: floating unit with dual pistons and automatic cut-out valve for fast load contact; white swivel saddle with extra load gripping rings; positive stop to control ram overtravel; "T" handle with 90° pumping arc and three locking positions; crowned malleable wheels; work hardened bearing races in casters; overload safety valve and direct; gear type release valve. Compact design and rugged construction make the GH an outstanding performer in its field.



X-10

The X-10 is the only 10 ton Service Jack equipped with dual pistons and automatic cut-out valve. Contacts average loads in less than 6 handle strokes — lifts to a high of 26½". Handle pumps full 90° arc and locks at three places for easier positioning and spotting under loads. Compact and easy operating, the X-10 is designed to fit between the wheels of tandems for side lifting if desired. Caged roller bearings in front wheels plus thrust and radial bearings in casters combine with fine chassis balance to make this model very mobile in spite of its heavy-duty function.

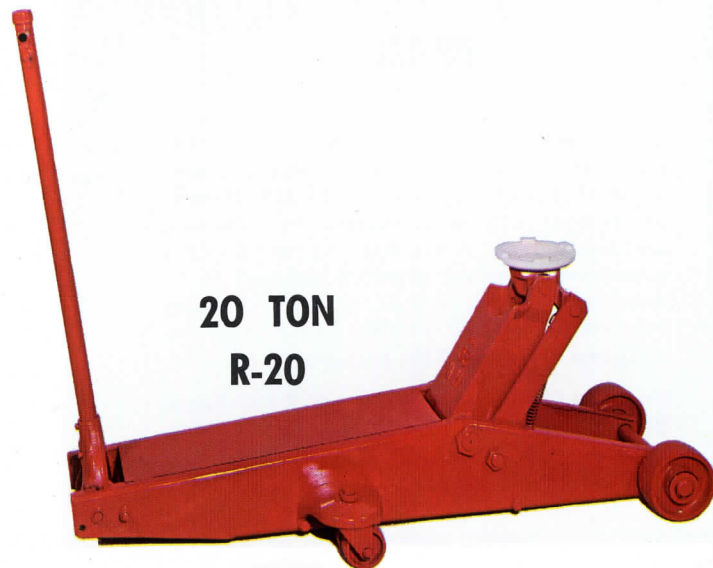
Other features include white swivel saddle; floating unit; heat treated ram and pistons; overload safety valve; by-pass to prevent ram overtravel and positive, gear type release valve.



**10 TON
X-10**

SPECIFICATIONS

Model	Cap. Tons	Saddle Low Point	Saddle High Point	Length of Chassis	Length of Handle	Length Overall	Frame Height	Dia. of Saddle	Dia. of Front Wheels	Dia. of Caster Wheels	Shipp. Weight Lbs.	Replacement Unit No.
GH	4	4¼"	25"	47½"	46"	91½"	6¾"	7½"	4"	2¾"	197	UGH
X-10	10	6½"	26½"	60½"	46"	104½"	10"	7¼"	6"	4"	370	UX-10



**20 TON
R-20**

R-20

The R-20 features dual pistons for fast load contact to efficiently handle the heavier equipment like large cranes, power shovels, crawler units and other earth moving machinery. Solid, reinforced steel side plates assure extra strength with less weight and compact chassis is finely balanced to aid maneuverability. Handle has 90° pumping arc with three locking positions for accurate spotting under contact points. All wheels are crowned and equipped with roller bearings.

Other design features include non-slip swivel saddle, wide wheel span and a safety valve to protect jack from overloading damage. The R-20 provides exceptional mobility and operating ease in handling the heavy jobs more efficiently than ever before.

HW

PR-306H

Designed for heavy duty work, the Model PR-306H combines rugged steel frame construction with convenient operation. Press bed adjusts from 7" to 47" by means of a hydraulic unit attached to the mounting plate and provides clearance for shafts up to 5" in diameter. Bed plates are also reinforced for extra strength. Model PR-306H is powered by 30 ton ram with internal return spring and two speed hand pump equipped with overload valve. Ram mounting adjusts laterally and ram has positive stop. Model 30-G Gauge optional at extra cost.

Also available with ½ H.P. Motor Pump as Model PR-306M.



**30 TON
PR-306H**

R-20 SPECIFICATIONS

Model	Cap. Tons	Saddle Low Point	Saddle High Point	Length of Chassis	Length of Handle	Frame Height	Saddle Dia.	Dia. Casters	Dia. Front Wheels	Shipg. Weight Lbs.
R-20	20	7"	25"	61¼"	46"	10¼"	8"	4"	7"	531

PRESS SPECIFICATIONS

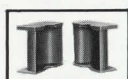
Model	Capacity Tons	Frame Width	Overall Height	Working Range	Bed Increments	Ram Stroke	Shipping Wt. Lbs.
PR-306-H PR-306M	30	30"	68"	7" to 47"	5"	6"	516

**A WINNER
FOR OVER 40 YEARS**

CRANES & PRESS



P-109



P-108

**12 TON
PR-126**

PR-126

Constructed of 4" channel steel, this sturdy press has reinforced bed which adjusts to seven working positions, from 6½" to 44". Threaded plunger cap is removable to substitute special adapters. A locating ring for ram caps automatically centers standard jacks up to 12 tons capacity into proper position. Regular Hein-Werner Model E12.9A shown may be equipped with No. 12G pressure gauge.

Standard PR-126 is furnished with P-120 Angle Plates less jack. P-108 Box Tool for removing axle bearings and P-109 Safety Shield are available at extra cost.

C-1000

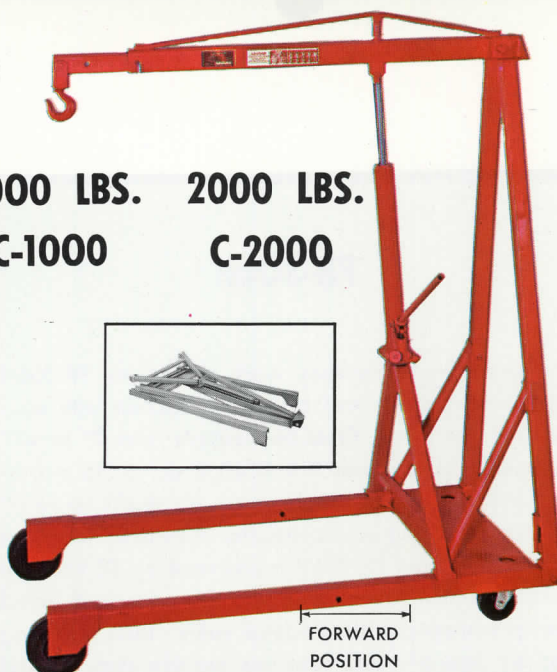
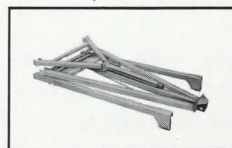
C-2000

Each of these Cranes feature telescoping boom of tough Elyria tubing for extra strength with less weight. Mast mounts in rear or forward positions, providing more reach and leg clearance when needed. Hydraulic unit is accurately located for most direct ram thrust and rests on pivoting "A" frame supports to further reduce ram strain.

Other advantages include swivel hook and large, free rolling wheels and casters. Convenient platform at rear accommodates counter weights for extra stability when boom is extended to forward position. Recommended counter weights in various positions are indicated below. Both models are knocked down for shipment in compact cartons to ease stocking problems and can be assembled in minutes.



**1000 LBS. 2000 LBS.
C-1000 C-2000**



FORWARD
POSITION

PRESS SPECIFICATIONS

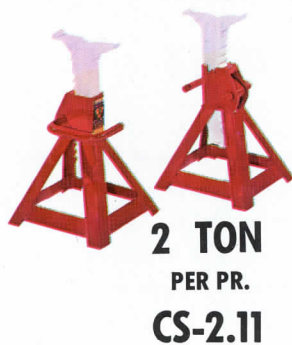
Model	Capacity Tons	Frame Width	Overall Height	Working Range	Plunger Thread Size	Shipping Wt. Lbs.	Base Size
PR-126	12	21½"	72"	6½" to 44"	⅝" - 18	220	21½" x 36"

BOOM SPECIFICATIONS

Model	Boom Position	Max. Capacity	Counter Wt. (Mast at Rear)	Counter Wt. (Mast Forward)	Max. Height	Min. Height	Length
C-1000	1	1000 #	—	—	88"	32"	41"
	2	750 #	—	100 #	93"	28"	48"
	3	600 #	—	200 #	96"	22"	55"
	4	500 #	70 #	300 #	101"	18"	62"
	5	400 #	140 #	300 #	106"	13"	69"
C-2000	1	2000 #	—	150 #	98"	30"	60"
	2	1500 #	—	300 #	102"	25½"	69"
	3	1000 #	—	300 #	107"	19½"	79"
	4	750 #	70 #	300 #	112"	13½"	89"
	5	500 #	70 #	300 #	123"	6½"	99"

CRANE SPECIFICATIONS

Model	Capacity Lbs.	Base Length	Base Width	Mast Height	Length Inside Legs	Wheel Diameter	Caster Diameter	Shipping Wt. Lbs.
C-1000	1000	55"	30½"	62"	43"	6"	4"	165
C-2000	2000	72"	36"	68½"	52½"	6"	4"	314



2 TON
PER PR.
CS-2.11



5 TON
PER PR.
CS-5.15



7 TON
PER PR.
CS-7.20



5 TON
(PIVOT HEAD)
PER PR.
CS-5.17



2 1/2 TON
(PIN-TYPE)
PER PR.
CS-2.14



10 TON
PER PR.
CS-10.18



SAFETY STANDS

Offered in pairs these rugged, ratchet type stands are designed to provide utmost safety and stability. Self-engaging pawl is automatically locked in rack bar by weight of vehicle so it cannot trip accidentally while supporting load. Formed steel frame and tough malleable rack bar assure extra strength. All sizes have rigid saddles except CS-5.17 is pivot type.

CS-2.14 Pin-Type stands provide sturdy construction and height adjustments in 2 1/2" increments. Square lock pin design widens supporting area of pin and helps prevent hole elongation.

Stands must be used in matched pairs for stable load support.

HIGH STANDS

Model CS-2.54-1 High Stands adjust with locking pins from 54" to 81" in 5" increments with a 6" screw adjustment. Saddle size is 2 3/4" x 5". Ideal for use with hoist for under-vehicle jobs. Offered in pairs.



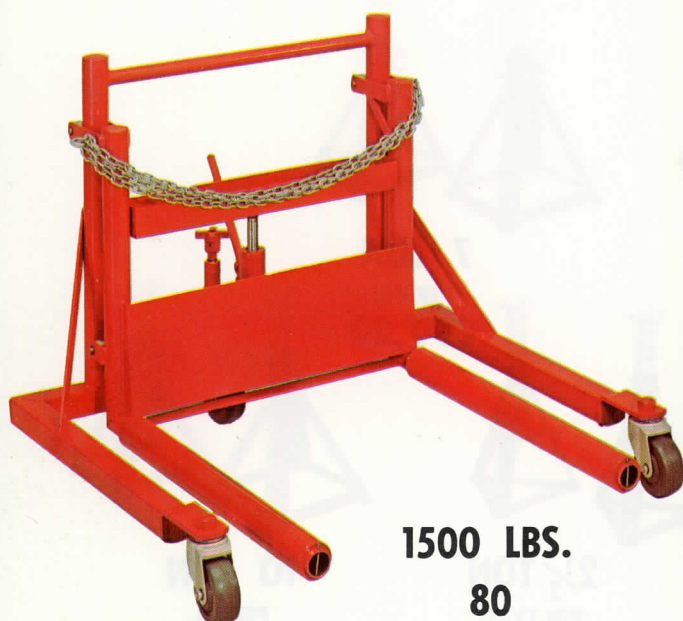
1 1/2 TON
PER PR.
CS-2.54-1

SPECIFICATIONS

Model	Capacity Tons (pr.)	Low Height	Max. Height	Base Size	Shipping Wt. Pair
CS-2.11	2	10 7/8"	17 3/4"	8" x 9"	19 lbs.
CS-2.14	2 1/2	15"	25"	12" (side)	15 lbs.
CS-2.54-1	1 1/2	54"	81"	24" (side)	72 lbs.
CS-5.15	5	14 7/8"	25 1/4"	10" x 12"	29 lbs.
CS-5.17	5	15"	25 1/4"	10" x 12"	32 lbs.
CS-7.20	7	19"	30"	13 1/4" x 15 1/2"	40 lbs.
CS-10.18	10	18 7/8"	30 3/8"	13" x 13"	58 lbs.

A WINNER
FOR OVER 40 YEARS

CAR AND TRUCK . . .



1500 LBS.
80

80 WHEEL DOLLY

The Model 80 permits one man to remove or install heavy dual wheels quickly, using controlled hydraulic power. Adjusting screw above rear caster levels dual wheels with truck axle to avoid seal damage. Lift arms are equipped with two oilite bearings so wheels can be easily rotated as necessary for proper hub line up. Four guide rollers also equipped with oilite bearings maintain smooth carriage operation throughout lifting range.

Chassis has tool tray and is designed to handle wheels up to 52" diameter. Large 4" rubber tired casters have ball bearings. Handle knob on chassis leveling screw can be operated by hand or with ½" socket wrench. Power unit is special Hein-Werner 1½ ton jack with large release lever.

HW

64

Powered by a two-stage hydraulic unit, the 64 is designed for servicing transmissions under hoists at stand-up working levels. Features include foot pedal operation, extra large base span, four-way tilt controls and easy rolling rubber casters.

Convenient speed crank makes forward-rear tilt adjustments quickly. Upright corner brackets swivel and their support plates are adjustable to the angle desired. Positioning handle aids spotting and dollying. Convenient placement of controls permits one man operation, reducing time and labor costs. Both rams have bronze guides to provide extra rigidity under load. Two stage pump and two stage release permit fast operation and precise line up adjustment. Nos. 5410 Tempest, 5411 Corvair and 6114 Tornado Adapters optional at extra cost.



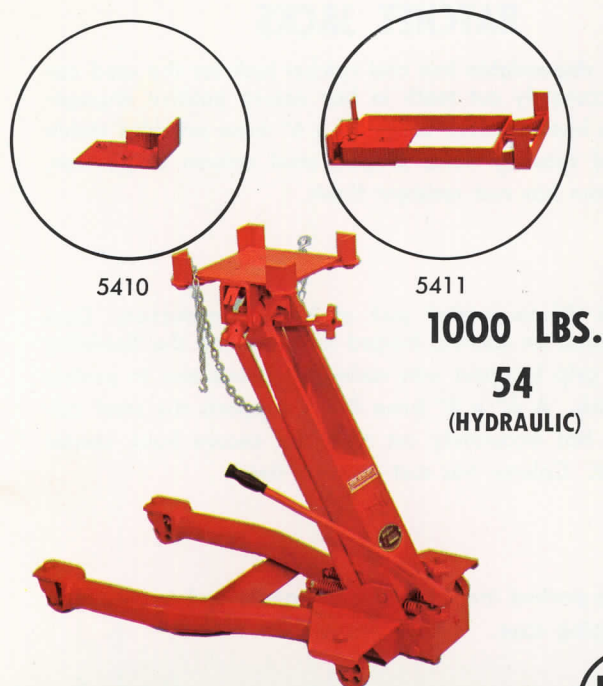
1000 LBS.
64
(HYDRAULIC)

WHEEL DOLLY SPECIFICATIONS

Model	Cap. Lbs.	Hyd. Lift	Ext. Screw Adj.	Chassis Height	Chassis Width	Chassis Length	Lifting Arm Length	Lifting Arm Spread	Caster Dia.	Shipp. Weight Lbs.
80	1500	5¼"	1¾"	29"	29"	35½"	24"	24"	4"	123

64 SPECIFICATIONS

Model	Capacity Lbs.	Lifting Range	Wheel Base	Wheel Diameter	Front Tilt	Rear Tilt	Side Tilt	Shipping Weight
64	1000	34" to 77½"	34"	4"	25°	15°	12°	128 lbs.



5410

5411

1000 LBS.
54
(HYDRAULIC)
54

Using the versatile Model 54 with modified O'Boy unit, one man can quickly change all standard car or light truck transmissions. Upright corner brackets on lift plate swivel — bracket plates adjust to any angle desired. Two tilt controls are conveniently located and have insets for $\frac{1}{2}$ " socket wrench.

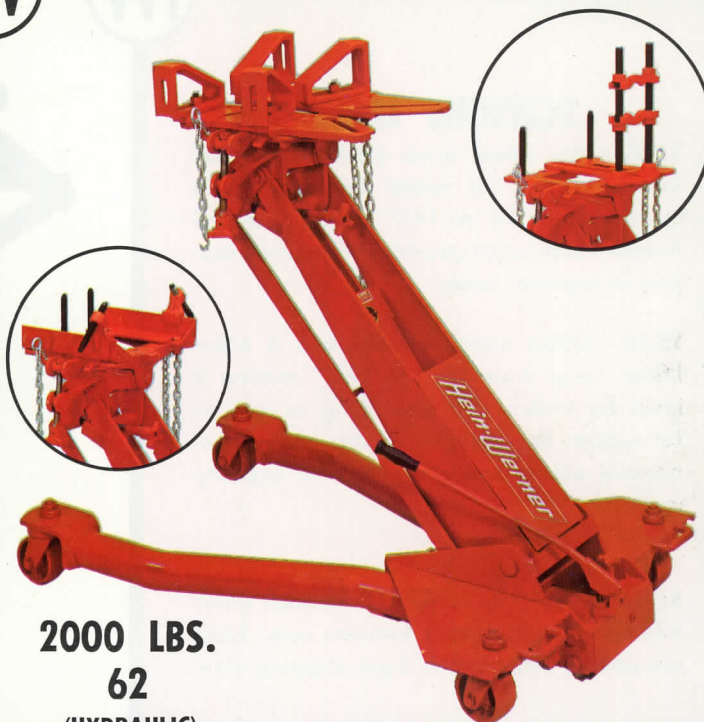
Lifts 31" to work bench height. "A" frame design provides extra stability and space for using service jack to support engine when removing transmission. Other features include swivel handle, overload safety valve, positive release and strong tubular frame.

Special No. 5410 Tempest, 5411 Corvair and 5414 Toronto Adapters optional at extra cost.

HW
62

Lifts from $9\frac{1}{4}$ " to $44\frac{1}{4}$ ", offering the operator a wide choice of comfortable working heights. Standard unit includes all necessary adapters shown for handling every over-the-road Automatic Heavy-Duty truck transmission, differential, front or rear power unit changeover. Specially engineered lift plate adapters can be interchanged in moments. Low chassis height provides easier access and more work space for the mechanic.

Other features include "A" frame design permitting use with service jack; four-way tilt control by hand or $\frac{1}{2}$ " socket wrench; swivel pumping handle; rugged service jack power unit with overload safety valve; easy rolling malleable casters and positive release valve control. Casters and wheels are fully bearing equipped for easy mobility and dollyng loads.

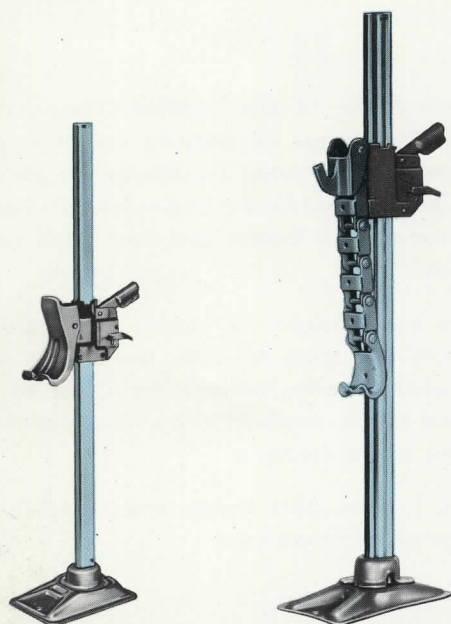

2000 LBS.
62
(HYDRAULIC)

SPECIFICATIONS

Model	Cap. Lbs.	Lifting Range	Max. Frame Height	Overall Length	Overall Width	Wheel Dia.	Front Tilt	Rear Tilt	Side Tilt	Shipping Weight
54	1000	6 $\frac{1}{4}$ " to 31"	5 $\frac{3}{4}$ "	37"	18"	2 $\frac{1}{2}$ "	65°	18°	13°	111 lbs.
62	2000	9 $\frac{1}{4}$ " to 44 $\frac{1}{4}$ "	9 $\frac{1}{2}$ "	48"	28 $\frac{1}{4}$ "	4"	40°	15°	10°	330 lbs.

A WINNER
FOR OVER 40 YEARS

PASSENGER CAR . . .



5/8 TON R1.31B 1 TON R1.32A

RATCHET JACKS

R1.31B — A dependable low cost ratchet jack for the used car market. Accurately cut teeth in bar assure positive engagement of the hook carrier. Large 6" x 6" base provides stable support and securely holds shaped steel column in position. Lifting Column has rust resistant finish.

R1.32A — A deluxe ratchet jack of husky construction. Dual hooks mounted on coated, hinged links provide the flexibility to securely grip bumpers with varied lift points and to protect bumper finish. A 6" x 8" base firmly supports the steel column which has accurately cut teeth for secure hook carrier engagement. Column has rust resistant finish.

Both models packed individually with handle and over-packed 10 per shipping case.

HW

SCISSORS JACKS

S1.35 — Has rolled acme threads and ball bearing action for easier operation. Lifts from a low of 3 3/8" to 14 1/2". Wide base and riveted construction provide stable safe support of capacity loads.

S2.35 — Offers extra capacity and a wider lifting range from 3 3/8" to 18 7/8" making it ideal for trailers and side lifting as well as for regular tire changing. Extra heavy components assure ample strength for capacity loads.

Both models furnished with 52" handles which fold for compact storage between uses. Jacks are packed with handles 6 per shipping case.



**1 1/2 TON
S1.35**



**2 TON
S2.35**

SPECIFICATIONS

Model	Cap. Tons	Low Hook Height	Low Jack Height	Lift Range	Max. Height	Base Size	Shipping Wt. Lbs.
R1.31B	5/8	1 1/4"	—	26"	27 1/4"	6" x 6"	10
R1.32A	1	2"	—	29"	31 1/2"	6" x 8"	14
S1.35	1 1/2	—	3 3/8"	11"	14 1/2"	7" x 5"	12
S2.35	2	—	3 3/8"	15 1/4"	18 7/8"	7 1/4" x 4"	17

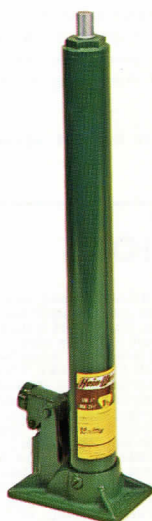
BUMPER JACKS

Hein-Werner

19



**1 1/2 TON
V1.23**



**1 1/2 TON
V1.22A**

HW

V1.23

Lifts loads smoothly and safely with easy hydraulic power. Long, flexible chain can be easily adjusted to desired starting height and fits snugly around any bumper contour. Dual hooks permit user to choose type best suited to securely contact varied lift points. Its extra high lift, flexible hook design and provision for top lifting make the V1.23 Bumper-Lift exceptionally valuable for many other uses.

V1.22A

The dependable performance and high lifting range of this model makes it a valuable power unit for many industrial applications when automotive lifting parts are omitted. Ram extends 7/8" above top nut. Often used to power light cranes, hydraulic tables and for varied pressing operations. Operates in a vertical or horizontal position.

MODEL 48

Designed for the car owner, the 48 Bipod jack incorporates precision machined screw suspended on bearings. Dual hooks are mounted on flexible vinyl coated segments to fit varied bumper contours. Heavy spreader bar locks legs in position for secure load support.

Folds for compact storage. Packed one per carton.



48

SPECIFICATIONS

Model	Cap. Tons	Low Hook Height	Low Jack Height	Lift Range	Max. Height	Base Size	Shipping Wt. Lbs.
V1.23	1 1/2	4 1/2"*	22 3/4"	18 3/4"	41 1/2"	5 1/8" x 3 3/8"	17
V1.22A	1 1/2	—	22 1/4"	18 3/4"	40"	5 1/8" x 3 3/8"	15
48	Car	2"	—	27 1/2"	30"	—	20

* Low Hook Adjustment 4 1/2" to 18 1/4"

**A WINNER
FOR OVER 40 YEARS**

SERVICE DATA

GUARANTEE

Hein-Werner hydraulic jacks and parts are guaranteed against defective materials and workmanship for 90 days from date of original sale to user. The part or jack should be sent prepaid to our nearest Official Service Station for inspection. A full and complete explanation of the complaint, and proof of purchase date, must accompany the jack. Guarantee does not cover jacks worn out in service, damaged by overloading, misuse, accident or use of improper oil. No other warranty (including but not limited to warranties of merchantability and fitness for purpose) expressed or implied, shall be deemed to exist.

Do not return jacks or units to the factory. Send them prepaid to the nearest official service station for repair.

HEIN-WERNER SERVICE STATIONS

Alabama	Lift Parts Service Co., Inc., P. O. Box 176 — 409 North Broad Street, Mobile 36601	New Jersey	Hydrair, Inc., 615 Union Avenue, Union Beach 07735
Alabama	Hydraulic Service Company, 3000 Fourth Avenue, South, P. O. Box 31062, Birmingham 35222	New Jersey	Metro Hydraulic Jack Company of New Jersey, 52 Elm Street, Newark 07105
Alaska	C.S.T., Inc., P. O. Box 9281, 2911 Lemon Street, Montgomery 36108	New Mexico	Industrial Hyds. Inc., 33 West Inman Avenue, Rahway 07065
Arizona	Northern Hydraulics, 5773 Seward Highway, Anchorage 99502	New York	A-One Equipment, 108 Rhode Island N.E., Albuquerque 87108
Arkansas	Jacks, Incorporated, 1909 East Washington, Phoenix 85034	New York	Ace Hydraulic Service, 1201 Burnet Avenue, Syracuse 13203
Arkansas	Clark Hydraulic Service, Inc., 2901 Confederate Blvd., Little Rock 72206	New York	Albany Hydraulic & Lube Service, 275 Columbia Turnpike, Rensselaer 12144
California	Prock Equip. Sales & Service, 811 North "E" Street, Fort Smith 72901	New York	Buffalo Hydraulic Jack Service, 488 Walden, Buffalo 14211
California	Kimmerle Brothers, 2300 South Hill Street, Los Angeles 90007	New York	Buffalo Hydraulic Jack Service, 629 Ramona Street, Rochester 14615
California	Sierra Hydraulics, 226 - 11 Street, San Francisco 94103	New York	Genco Garage Equipment Corporation, 153-75 Rockaway Blvd., Jamaica 11434
California	Sacramento Air & Hydraulic, 8122 Junipero Road, Sacramento 95828	New York	Atlas Hydraulic Co. Inc., 41 Hicks Street, N. Lindenhurst 11757
California	L & G Specialties, 524 Houston Street, West Sacramento 95691	New York	Metro Hydraulic Jack Company, 846 E. 52 Street, Brooklyn 11203
California	A-1 Hydraulics, Inc., 6660 Stockton, San Jose 95126	North Carolina	Charlotte Hydraulic Service, P.O. Box 3252, 2133 South Tyron, Charlotte 28203
California	Kimmerle Brothers, 337 M Street, Fresno 93721	North Carolina	Power Tool Service, Inc., 867 Huffman Street, Greensboro 27405
California	A-1 Hydraulics, 6555 Peralta Avenue, San Leandro 94577	North Carolina	Power Tool Service, Inc., 150 Kapp Street, Winston-Salem 27105
California	Whaley Engineering Company, 2777 Newton Avenue, San Diego 92113	Ohio	Armstrong's B & M Hydraulic Services, 3336 Lodge Avenue, Dayton 45414
California	Eggman's Hydraulic Garage, 1112 East Harding Way, Stockton 95205	Ohio	Carl & Gene's Hydraulic Service, 6951 Wales Road, Northwood (Toledo Sub), 43619
California	Jack-X-Change, 1556 West Embassy, Anaheim 92802	Ohio	Eureka Tool and Hydraulic Service Inc., 3818 North Bend Road, Cincinnati 45211
Colorado	Merrill Hydraulic Specialists, 12 & Acoma Streets, Denver 80204	Ohio	Ohio Hydraulic Jack Service, 3826 Payne Avenue, Cleveland 44114
Colorado	Hiliker Hydraulics, Inc., 734 Santa Fe, Denver 80204	Ohio	Ohio Hydraulic Service of Columbus, 24 N. Grubb Street, Columbus 43215
Connecticut	A & L Eastern Hydraulics, Inc., 51 Farrer Avenue, New Haven 06513	Ohio	Salem Equipment Repair Co., 505 Salem Avenue, Dayton 45406
Delaware	John the Jack Man & Company, Route 190, Box 33, Stafford Springs 06076	Oklahoma	Agnew Hydraulic, 2305 S. Agnew, Box 82713, Oklahoma City 73108
Delaware	Delaware Valley Hydraulics, 601 Boxwood Road, Wilmington, Delaware 19804	Oklahoma	Hydraulic Equipment Company, 515 S. Broadway, Oklahoma City 73125
Florida	Broward Hydraulic Jack Service, 3811 Davis Blvd., Fort Lauderdale 33314	Oklahoma	Mac's Hydraulic Jack Service, 2108 East 11 Street, Tulsa 74104
Florida	Southern Hydraulic Service, 1502 Columbus Drive, Tampa 33605	Oregon	Hydraulic Equipment Company, 2423 East Admiral Boulevard, Tulsa 74110
Florida	Central Hydraulic Service, 3423 LaSalle Street, Tampa 33607	Oregon	Equipment Service, 1204 N. W. Glisan, Portland 97209
Florida	Tingen Hydraulic Service, 514 South Edgewood Avenue, Jacksonville 32205	Oregon	Karn Repair Service, Inc., 1215 SW 16 Avenue, Portland 97205
Florida	Hydraulic Services, Inc., 1740 Barrancas Street, P.O. Box 145, Pensacola 32502	Oregon	Les's Hydraulic Service, 2550-5 Avenue West, Eugene 97402
Florida	Miami Equipment Repair Company, 1927 North West 36 Street, Miami 33142	Pennsylvania	Equipment Service Company, 1921 Callowhill Street, Philadelphia 19130
Florida	Metuchen Hydraulic Jack, 63 W. Iliana Avenue, Orlando 32806	Pennsylvania	Mac's Jack & Equipment Service, Inc., 121 Putnam Street, Pittsburgh 15206
Florida	L.E. Grice Hydraulic Jack & Repair Service, 31 North Westmoreland Drive, Orlando 32805	Pennsylvania	Service Equipment Company, R.D. No. 2, Box 70, Duncannon 17020
Florida	Dade Equipment Service, 961 W. 22 Street, Hialeah 33010	Pennsylvania	Erie Jack Service, 1248 E. 21 Street, Erie 16503
Georgia	Richmond Jack Repair, 2015 Savannah Road, Augusta 30901	Rhode Island	Charlie Hyd. Jack Repair, 1309-11 Cedar Ave., Scranton 18505
Georgia	Atlanta Hydraulic Repair Service, 1206 Sylvan Road, S.W. Atlanta 30310	South Carolina	Tri-Power Sales & Service, 111 Pennsylvania Avenue, Warwick 02886
Georgia	Turner & Cole, 353 West Peachtree Street, North East, Atlanta 30308	South Carolina	Baldwin Bros. Air and Hydraulic Jack Service, 2132 Spruill Avenue, Charleston 29405
Georgia	B & R Hydraulic Service, Inc., 511 Roosevelt Avenue, Albany 31702	South Carolina	J.W. Lewis and Company, 319 Exchange Street, Spartanburg 29301
Hawaii	Air and Hydraulic Service, 842 Ilanial Street, Honolulu 96813	South Dakota	Midwest Jack Service, 910 West Tenth Street, Sioux Falls 57104
Idaho	Twilann Hydraulics, P.O. Box 8186, 106 E. 35 Street, Boise 83707	Tennessee	Hydraulic Jack Service Company, 1710 Market, Chattanooga 37408
Illinois	Bemis Hydraulic Jack & Equipment Company, 518-520 East War Memorial Drive, Peoria 61614	Tennessee	Jack Flint & Son, 244 Jefferson, Memphis 38103
Illinois	Servall Engineering Company, 3937 North Kedzie Avenue, Chicago 60618	Tennessee	Jackson Bearing Company, 384 South Royal Street, Jackson 38301
Illinois	R M C Metalizing, 2220 - 20th Avenue, Rockford 61108	Tennessee	Johnson and White Equipment Company, 1004 Gallatin Avenue, Nashville 37206
Indiana	ABC Specialty Company, 1075 Kenwood Avenue, Fort Wayne 46803	Tennessee	Lubrication Equipment Service, 231 Dale Avenue, Knoxville 37921
Indiana	White-Evans Hydraulic Jack Service, 38 Shelby Street, Indianapolis 46202	Tennessee	Hydraulic Services, Inc., 3108 Bellbrook Drive, Memphis 38116
Indiana	Hydraulic Jack Service Company, 601 North Fulton Avenue, Evansville 47710	Texas	Turk Equipment Maintenance Company, 1010 West Third Street, Austin 78703
Indiana	Miller Tool, 20480 Miller Road, South Bend 46614	Texas	A.J.'s Equipment, 2303 East 11 Street, Dallas 75203
Indiana	Servall Engineering Co., 744 Sibley Avenue, Hammond 46320	Texas	Ace Equipment Repair, Inc., 3010 Canton, Dallas 75226
Indiana	Scotty's Hyd. Jack Service, 1204 N. Center Street, Plymouth 46563	Texas	Dave Hill Wholesale Automotive, 410 South Santa Fe, El Paso 79901
Indiana	Quality Equipment Service, 411 Newton Street, Jasper 47576	Texas	Hydraulic Equipment Service Company, 1021 North San Jacinto Street, Houston 77002
Iowa	Five Cities Tool Service, Inc., 743 Schmidt Road, Davenport 52802	Texas	Hou-Tex Hydraulics, Inc., 3107 Leeland Avenue, Houston 77003
Iowa	Turner's Hydraulic Service, 3011 Sixth Avenue, Des Moines 50313	Texas	Hydraulic Equipment Service, 328 Avenue "H" Lubbock 79401
Iowa	Christopherson & Sons, 1024 - 5th Street, Jesup 50648	Texas	Young's Equipment Service, 515 North Hackberry Street, San Antonio 78202
Kansas	Hydraulic Equipment Company, 1311 S. McLean Blvd., Wichita 67213	Texas	Sankey Equipment Company, 2005 Broadway, San Antonio 78215
Kansas	Ginder Hydraulic & Machine Shop, 1218 North 9 Street, Salina 67401	Texas	Westbrooks Hydraulic Equipment, 2012 Sheppard Access Road, Wichita Falls 76304
Kentucky	Queen Hydraulics, 1226 Rowan Street, Louisville 40203	Texas	Hydraulic Equipment Company, 1824 East Lancaster, Ft. Worth 76103
Louisiana	Power Tool Repair Service Inc., 2025 Scenic Highway, Baton Rouge 70802	Texas	French's Service & Repair, 412 S. Missouri, Weslaco 78596
Louisiana	Beerman Precision Machine Works, Inc., 2021 Thalia Street, P.O. Box 53432, New Orleans 70153	Utah	Gustin Hydraulics, 151 W. Commonwealth, Salt Lake City 84115
Louisiana	Wagar Air & Hydraulic Service, 4115 Meadow Lane, Bossier City 71010	Virginia	Hydraulic Service Company, 3104 Victory Boulevard, Portsmouth 23702
Louisiana	Industrial Tool & Equipment, 120 First Street, P.O. Box 159, Broussard 70518	Virginia	Moore's Jack and Equipment Service, 2403 North Lombardy Street, Richmond 23220
Maine	Winn's Jack Service, 8 South Street, Lubek 04652	Virginia	Stultz Machine and Manufacturing Company, 1546 Brownlee Avenue, South East, Roanoke 24014
Maine	Cove Hydraulic Service, Cove Street & 351 Marginal Way, P.O. Box 1020, Portland 04101	Washington	D & S Repair Service, 20 S. Dove Street, Alexandria 22314
Maine	N.H. Bragg & Sons, 92 Perry Road, Bangor 04401	Washington	Olson Parts and Supplies, 2128 East Sprague Ave., Spokane 99202
Maryland	Baltimore Hydraulics, Inc., 700 East 25 Street, Baltimore 21218	Washington	The Jack Shop, Inc., 409 Cedar, Seattle 98121
Massachusetts	Leo's Equipment Service, 120 Front Street, Holyoke 01040	Washington	Yakima Hydraulic Company, 5306 W. Washington Ave., Yakima 98903
Massachusetts	Somersett Jack Company, 114 Broadway, Somerville 02145	West Virginia	CCC Hydraulic Service, 1009 Central Avenue, Charleston 25302
Massachusetts	Hydraulic Equipment Repair, 132 Pond Street, Billerica 01821	West Virginia	Mountaineer Industries, 1040 South Chestnut Street, Clarksburg 26301
Massachusetts	Olive Hydraulic Service, 11 Olive St., Greenfield 01301	Wisconsin	Hader Industries, 2100 South Calhoun Road, New Berlin 53151
Massachusetts	Tedesco Brothers, 773 Granite Street, Braintree 02184	FOREIGN	Mac's Hydraulic Parts and Service, 525 South Broadway, Green Bay 54303
Michigan	Hydraulic Service, 21251 Ryan Road, Warren 48091	Albarta	Northland Air Hydraulics, Ltd., 6210 - 88th Street, Edmonton
Michigan	Hydraulic Equipment Service Company, 1401 North Alpine, Grand Rapids 49504	Albarta	Air Electric Services, Ltd., 3816 — 7th Street, S.E., Calgary, Alberta, Canada
Michigan	Rogers Machine Company, 616 North Water Street, Bay City 48706	British Columbia	Hydraulic Service & Equipment Co., Ltd., 1605 Quebec Street, Vancouver, 4, B. C. V6A 3L6
Michigan	Burr E. Steffy Company, 14947 West Michigan, Marshall 49068	Manitoba	Pritchard Engineering Company, Box 1740, 111 Bannister Avenue, Winnipeg
Michigan	B.K. Hydraulic Jack Service, Standish Avenue, Petoskey 49770	Quebec	Canadian Trade Corporation, 1505 Legendre Street, W. Montreal 355
Minnesota	Hydraulic Jack & Equipment Service Company, 2601 Aldrich Avenue, South, Minneapolis 55408	Saskatchewan	Western Hydraulics and Equipment Company Ltd., 1607 St. Johns, Regina
Mississippi	Dixie Hydraulic Service, 1640 South Gallatin Street, Jackson 39204	Puerto Rico	Velazquez Hyd. Service, San Felipe esq. - Lincoln No. 481, Sabana Llan, Rio Piedras
Missouri	Central Hydraulic Service, 3101 Washington, St. Louis 63103	Belgium	Ets. Noirhomme, Rue D'Angleterre 43-45, Brussels
Missouri	Harry L. Nolte Company, 1221 Clay, North Kansas City 64116	Denmark	E. Busch-Møller A/S-12, Sankt Kjelds Plads, DK-2100, Copenhagen
Montana	Falls Hydraulic Jack Service, 307 Third Avenue, Great Falls 59401	Switzerland	Urania-Accessoires, Badenerstrasse 288/296 - Zurich
Montana	Toledo Scales & Service, 2402 Minnesota Avenue, Billings 59101	Jamaica	Beckfords Auto Supplies, Ltd., P.O. Box 156, Kingston 5
Nebraska	Turner's Hydraulic Service, 1716 Vinton Street, Omaha 68108	New Zealand	Motor Traders (n.z.) Ltd., 91-95 Mt. Eden Rd., Auckland
Nevada	Borgman Repair Service, 1425 - 1/2 East 4th Street, Reno 89502	Mexico	Distribuidora De Fabricas, S. A., P.O. Box 166, Torreon, Coah
New Hampshire	Hydraulic Jack Service, Gilsum Road, Keene 03431	Mexico	Industrias Guillermo Murguía, S.A., Blvd. M.A. Camacho 315, Apartado Postal 531.
New Hampshire	Manchester Hydraulic Co., 341 Taylor Street, Manchester 03103		Noucalpan, Edo. de Mexico

Hein-Werner

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WAUKESHA, WIS. 53186

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